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      *      20      *      40      *      60      *      80      *
AXMI-004 : -----SLLKGGFKKSTHRTCCLL-----KINIGGRGGRNSKHDYLVKCNLSDANI--NN--ERFDKDAEITGIGVSELEGGHP--GGTA : 78
cry1Ac : -----DENPMLNFCIPVCLISHP-----EEVLVGGGRLLTG-----YEPIDISLSTOTFLASEFV--GAGF : 56
cry1Ca : -----KLN--HQQCIIPVCLISHP-----EEVLLDGGRYSTG-----VSSIDISLSTOTFLASNTVP--GGGF : 55
cry2Aa : -----ENYVLSGGRTTICDAVNVVAHDPPSFPHKSLDTIQKEVHEWKR-----TDHSVYAPVSGTVSSFLKKVGSLL : 69
cry3Aa : -----MKRGGGRKMPESRSEHDTIKTTEENEVPTNRYQYPLAETPNPTLEDLWYKEFLRHTADNTEALDSSITKDVQKGSVYGLGVGGVPPFGGA : 95
cry1Ia : -----MKLQKQDQKHSFSSNAKV-----DKISTDSLKNEEDIELOINHEEDCLKHSE--YENVEFFVYASITGTGIGAGAGDGLTGVPPFAGQ : 81
cry7Aa : -----MNLKLDGYDSKRTLEN-----SENYPFOKALSPSLKKNYQDFLSITERE--QPE--ALASGNTANTVSGTGTATLSALGVPEASF : 80
      n      6      6

      *      100     *      120     *      140     *      160     *      180     *
AXMI-004 : -----DQVFNQDPSRQD-----SGNAPFHEVVELIDDPHGGVFNKAUSPLAGIONHLETWIGLRNTEMDIE--NSKAQGRKANYVSETEQAVERS : 166
cry1Ac : -----VLGLVDIDSGIFG-----SQDAFIVQLEQLIHQSEPPRQATSRDEGLSHLVOIAESTREHEDPT--PALREERIQREHNSALTA : 144
cry1Ca : -----VLGLIDIPVGGVGF-----SQDAFIVQLEQLIHQSEPPRQATSRDEGLSHLVOIAESTREHEDPT--PFETRTIRIDRGRIDGLERD : 143
cry2Aa : -----CKRILSEEGGIFGSGSTNLQDIDRETDQINQRTDITLARVNAELHGLQANTIRFNOQVDFNLNPTON--PVPLSITSSVTHQQLFLNR : 160
cry3Aa : -----VPSYTNFLNTGPF-----SEDPKAFIDEQVLAHQHADNKKKALAEQGLQNNVEDVYSALSSQKQNPVSSRPHSQGRRELSSQASHFNS : 188
cry1Ia : -----VASLYSFLGEGDPR--GKNQLEIFHEEGEELIHQISTYARKALIDQGLDALAVYHDSLESVYGRN--NTRARSVYSQILAELEMYOK : 172
cry7Aa : -----LTFNFKLHAGLEPZ--HGKIEDPHEFEALIHQHELVYRRAHAEDQGLSALDKYKAKADHLGKQD--LPEALISATEIRHDSLEFES : 171
      p      w      f6      E      61      46      n      a      L      G6      5      5      6

      *      200     *      220     *      240     *      260     *      280
AXMI-004 : -----HSDPAPFSEFPLIVVYAAAHHLHLIRIVEFGKQCHSEOKKIEHYKQIKYTHEHFGVHFNKGLERLKKKSSYQDQVNVNFTQNT : 261
cry1Ac : -----LPLRANQSEFVPLLSVYAAAHHLHLVLRDVEVFGQRCQDAATINSRYDLTRLIGNHIVYAVREYATIGDERWG--FDSRDPVRYHOFREUR : 237
cry1Ca : -----LPSRISGSEVPLLSVYAAAHHLHLPLPSVIFPCNUGLITINWAZVGLRHIDEHACQANTNKGNNMPK--STYQDETIRHLSDDUT : 236
cry2Aa : -----EPQDQDQVOLLPLPAAAHHLHLSTIRQVINADEUGLSAATIKTYRVLNRTIRDSTNYGLITVOTAFRGNT--RLRDMLEFSTYF : 249
cry3Aa : -----HRSPLSGVEFLIHTVAAAHHLHLIETACVCEZGUCYKKNLAEFKRQKLTOTELHCKVKNVYGLDQRE--SSYSVYVTHIRP : 281
cry1Ia : -----LPSRISGSEVPLLPAAAHHLHLPLASIFCKEUGLSSSEISTYRQVZRGDSYHCKVKNSTGLMMRE--TNAESVRYHOFREUR : 265
cry7Aa : -----HPSRISGSEVPLLPAAAHHLHLPLSHLQDCKGCTONNKKYRQKRISYSDGCTKYNVSGLSRNE--STRQDQVNVHFTQNT : 264
      6P      F      6      26      1L      5      QAAN      HL      64D      6      g      WG      6      y      Y      c      Y      gl      6      w      n      Rr      6

      *      300     *      320     *      340     *      360     *      380
AXMI-004 : -----LVLDIVALFPHFTVOTFETVVAQLTREVYITPLMFWNPK-----LHSVQLPESDQENATITPHIMEFURMLREYDWSYVG-----RN : 344
cry1Ac : -----LVLDIVALFPHFTVOTFETVVAQLTREVYITPLMFWNPK-----FDGSPRCSAQGLRSFPHLMDLNSITPIYDAHRG-----Y : 313
cry1Ca : -----LVLDIALFPHFTVOTFETVVAQLTREVYITPLMFWNPK-----LQVQALETQVNESSRIEMPHLFDLNNHLYDWSYVG-----RN : 319
cry2Aa : -----LWVZYVSHSLKQYSLSLSSGAMVYASCSGPGQQTQSPTAQWNPFLYSLQVNSHLLSGISGIFLSITTFPGGPGSITHSLSARVNSG : 344
cry3Aa : -----LVLDIALFPHFTVOTFETVVAQLTREVYITPLMFWNPK-----CYGITFSNTEH--YHKKFELFDVHRIQPHQRPQPGYGC--MDSF : 364
cry1Ia : -----LVLDIVALFPHFTVOTFETVVAQLTREVYITPLMFWNPK-----PDIGPSSQRENTAETPHLVDYDELYVSKYKAFSHEIQPDL : 350
cry7Aa : -----LVLDIVALFPHFTVOTFETVVAQLTREVYITPLMFWNPK-----PDIGPSSQRENTAETPHLVDYDELYVSKYKAFSHEIQPDL : 350
      L      vid      a      Sp      d      y      Ltr      t      R      phl      6      6      3

      *      400     *      420     *      440     *      460
AXMI-004 : -----YVCGGRVSTHYVGGEL--TRSPLYGREANQVPP--RDTFFYGFYKTLKSKPRLPQQPAPAPPFNLRSLEGVEFHTPTGS-----FMYRERGQV : 431
cry1Ac : -----YVCGGRVSTHYVGGEL--TRSPLYGREANQVPP--RDTFFYGFYKTLKSKPRLPQQPAPAPPFNLRSLEGVEFHTPTGS-----FMYRERGQV : 407
cry1Ca : -----YVCGGRVSTHYVGGEL--TRSPLYGREANQVPP--RDTFFYGFYKTLKSKPRLPQQPAPAPPFNLRSLEGVEFHTPTGS-----FMYRERGQV : 406
cry2Aa : -----GVSSGLIGALHRRHNCSTVLPLSTPFVRSWLDSGTDREGVASTHNOTESFUTTLSLRCGAPSGARGSNHYFPDYFIRNISGVPLVIRNEDLT : 439
cry3Aa : -----MYSGGYSTPSPISGSDIETSPYGNKSSQPVQ--NLEFNGEKVTHAVANTHAWPVSAYVSGVTKVZFSQYNDQTDLEASTQYDSKRNQVAGW : 458
cry1Ia : -----MYSGGYSTPSPISGSDIETSPYGNKSSQPVQ--NLEFNGEKVTHAVANTHAWPVSAYVSGVTKVZFSQYNDQTDLEASTQYDSKRNQVAGW : 450
cry7Aa : -----MYSGGYSTPSPISGSDIETSPYGNKSSQPVQ--NLEFNGEKVTHAVANTHAWPVSAYVSGVTKVZFSQYNDQTDLEASTQYDSKRNQVAGW : 437
      w      g

      *      480     *      500     *      520     *      540     *      560
AXMI-004 : -----DSFELPFPVGLPHKVTHRIACHATFYKSG--TPYLITGAMVSWHESAEETHTESNLTQHPVAVTQSGGTVVRKGPEFTGGDILR : 523
cry1Ac : -----DSLDEPFPVGLPHKVTHRIACHATFYKSG--TPYLITGAMVSWHESAEETHTESNLTQHPVAVTQSGGTVVRKGPEFTGGDILR : 501
cry1Ca : -----DSLTEPFPVGLPHKVTHRIACHATFYKSG--TPFLITGVWENDRSATLTHTDPERINQHPVAVTQSGGTVVRKGPEFTGGDILR : 498
cry2Aa : -----RPLHYNQIRNLESPSGTPGGARAYLVSVHNRKN-----NIIAANENGQMIHLAPEDYTGFTISPHATQVNNOTRPHISEKFGNQQDSLF : 525
cry3Aa : -----DSLDEPFPVGLPHKVTHRIACHATFYKSG--SRGTPVLTGHSVDFFQDQSKOTIPLVAVAKQSGASVWAGRFTGGDILR : 548
cry1Ia : -----DSLDEPFPVGLPHKVTHRIACHATFYKSG--VKAIVSYVTEPSADRTHTDPSLTQHPVAVTQSGGTVVRKGPEFTGGDILR : 538
cry7Aa : -----DSLDEPFPVGLPHKVTHRIACHATFYKSG--DYDNAITPLHSITRSEALTYRTPYRQVTHAVAKQSGASVWAGRFTGGDILR : 528
      ds      pp      p      hrl      w      3      n      i      it      P      vk      v      qp      ftgGD      6

      *      580     *      600     *      620     *      640     *      660
AXMI-004 : -----TGPTFGDRRLWHAFLSORRVRRYASTDLOVYSINGTTLNIG-----HFPKQDNNLNTQSEGRITVSTSTPSTFSAQSIFFRG-- : 608
cry1Ac : -----NSSQNIQNGCYLLVPHFPSTSTRVRRYASVTPHILNVNNGHS--SIFSNTVPANATSLDQSSDGGYFESANAFSSLGHVGVNR-- : 591
cry1Ca : -----MTGDFVSLQVNTSPFLQRLRFRYASDPAVLTGAASTGVGGQVSKNPLQKHEZIGLHTSKTRITDPSNPFSTRANPDITGSEOP : 593
cry2Aa : -----EQSNITARTYLRGCG--NSQWYLRVSLGISTIRVFLNGRVTVSN-----VNTIDNEDGVNDGARSDNIGHIVASDNTNVTLDN-- : 608
cry3Aa : -----TELCSAATVYTPVYSYOKYHARTYASTSQTITSLDGARFNOY-----YFDKQDKEDTITVNSRNLASTSTPFLSGHNLQIVTG-- : 634
cry1Ia : -----TNIGTFGDRRLWHAFLSORRVRRYASTDLOVYSINGKAINQG-----HFSANMPLGDDYKTRITGGRTPFSLDQVSTFTTC-- : 623
cry7Aa : -----GSIQYTGDKATVPSLSORRVRRYASTDLOVYSINGKAITLTQ-----KFUNTVEVIGEGKQITVSGYLYSTTQIFPDHPKPTIHL-- : 618
      g      y      T      1      5

      *      680     *      700     *      720
AXMI-004 : -----IQAPSGVQVYVGLHIEFFVY----- : 629
cry1Ac : -----FSTAGVTHDPFFIFPVATLAEYNNLRQAQKAVNALFSTNOLGLKTEVDYHIDQVSNLY : 653
cry1Ca : -----LFGAGSISSGGLYVXKTHILADATFEASDLRQAQKAVNALFSSNOIGLKTVDYHIDQVSNLY : 660
cry2Aa : -----VTLNSGTFIDDEEDFVHLLPLY----- : 633
cry3Aa : -----LSAQKQVYVGLHIEFFVY----- : 652
cry1Ia : -----AMNYSQGNLYVHIEFFVYVYVYAEYDFERAQKVTALFSTNPRGLKTDVYHIDQVSNLY : 688
cry7Aa : -----DLSENSSFYDIEFFVYVYVYAEYDFERAQKVTALFSTNPRGLKTDVYHIDQVSNLY : 680
      6d      ief6p

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Fig. 1

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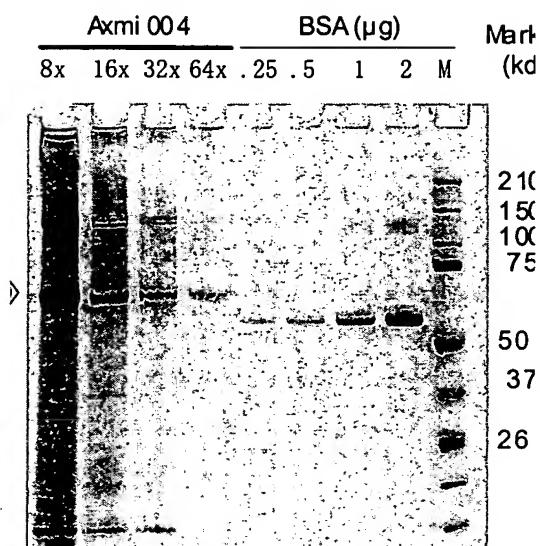


Fig. 2